

Packard) and Commodore Pet. The device address is switch selectable. The data transfer rate can be a maximum of 125 coordinates per second, depending on the receiving device.

Eight Bit Parallel--Within this interface, two formats, Binary and Binary Coded Decimal (BCD) are switch selectable. In the binary format, five eight-bit bytes are output for each coordinate pair. In the BCD mode, twelve ASCII BCD characters are output for each coordinate pair. The data transfer rate may be a maximum of 200 coordinate pairs per second, depending on the receiving device. The BCD interface is specifically designed to permit the Bit Pad One to be plugged into the Remote Keyboard port on a CRT or micro-computer.

2. THEORY OF OPERATION

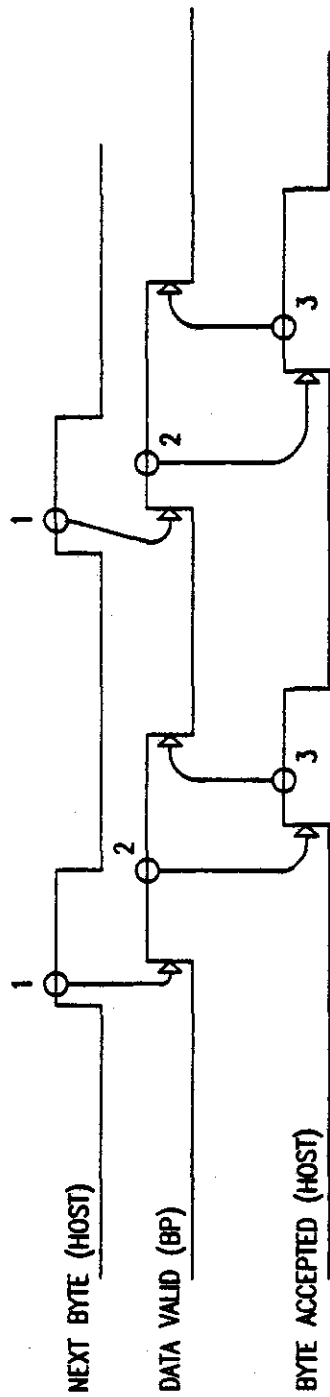
The Summagraphics Bit Pad One operates on the magnetostrictive principle. Current is pulsed along a send wire that lies perpendicular to a mesh of magnetostrictive wires laid on a substrate beneath the tablet writing surface. This current pulse changes the dimensions of the magnetostrictive material and a strain wave propagates down all the wires of the axis in one direction simultaneously. The stylus and cursor have "receive" coils in them and sense the passing of the strain wave. The binary counter in the control unit is used to time the delay required for the strain wave to reach the receive coil. This binary count is then formatted by the microprocessor and output as X and Y coordinate data.

3. ACCESSORIES & OPTIONAL EQUIPMENT

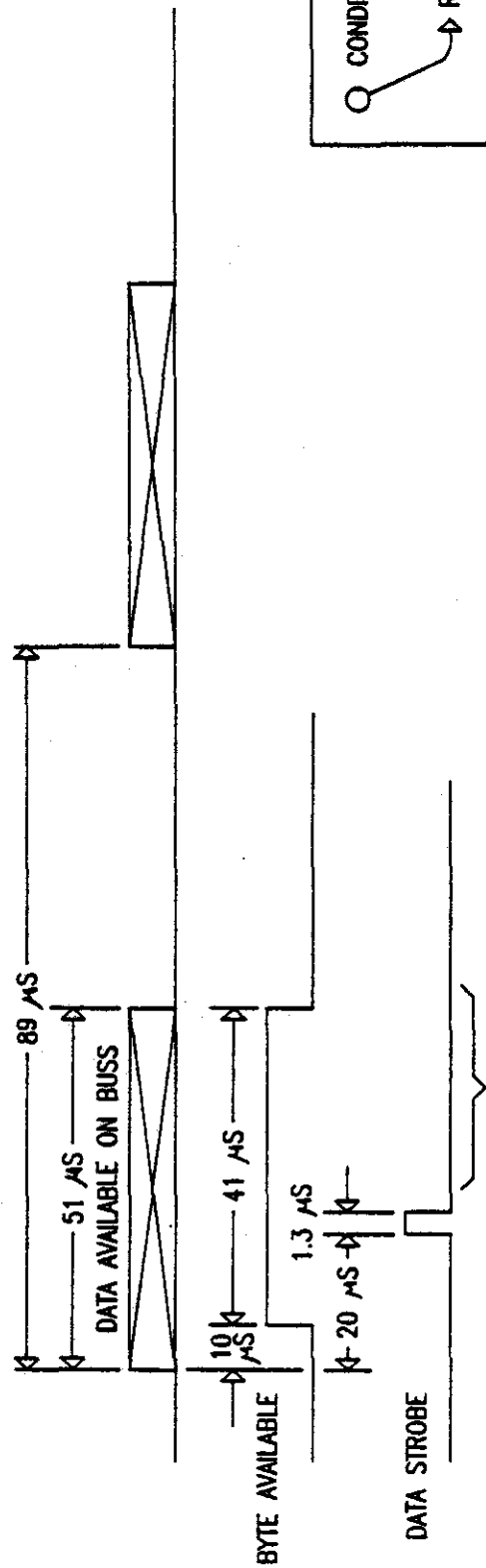
<u>Bit Pad One</u> --RS232	Part Number 01-0015-002
IEEE	Part Number 01-0017-002
Parallel	Part Number 01-0016-002
Stylus with blue and dry (non-marking) refills, Operator's Manual and Mating Power Connector.	- 01-0093-016

Optional Accessories

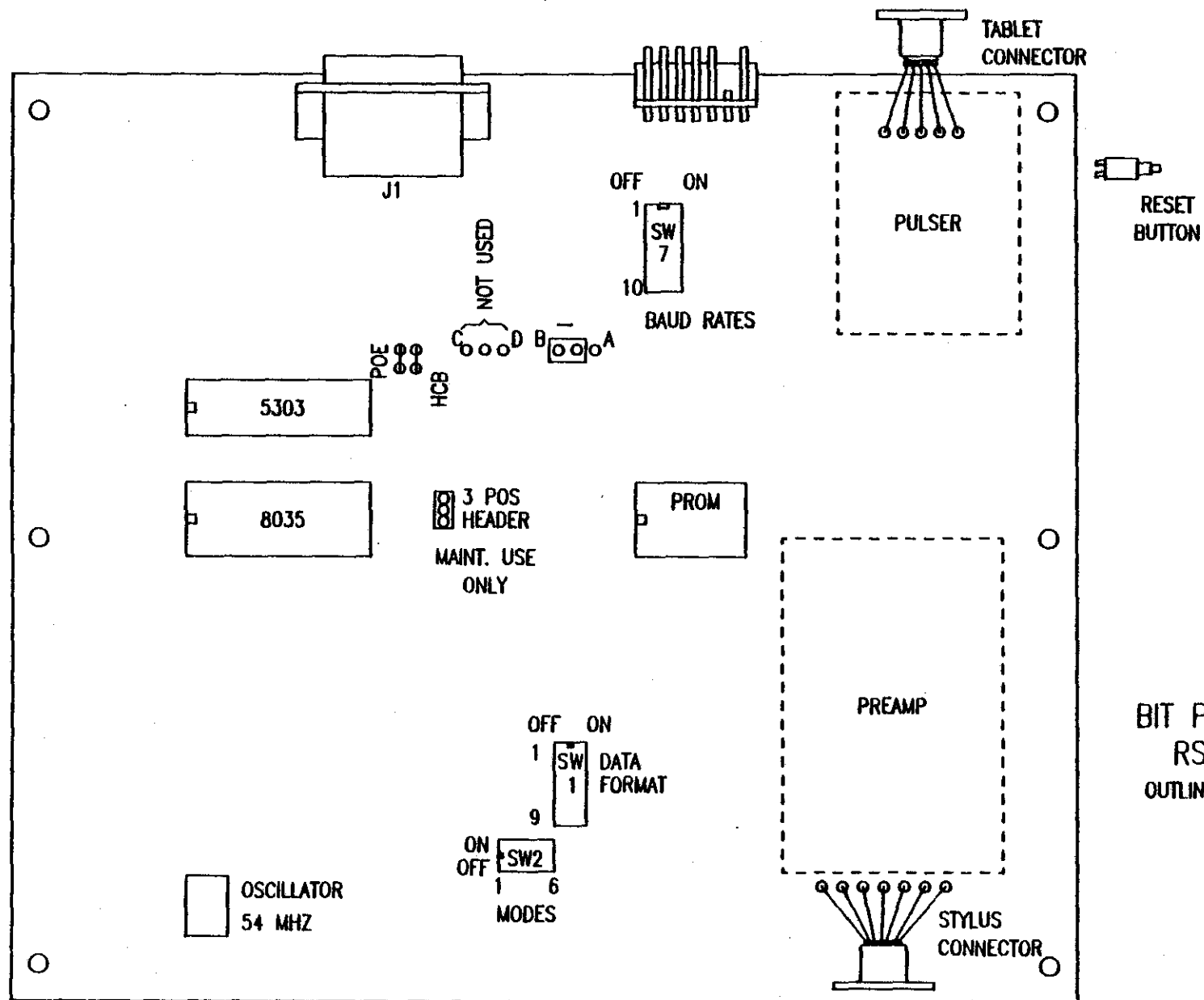
Power Supply (with regulator, cable and power connector)	
standard USA model, 105 to 130V, 57 to 63Hz	36-0090-001 (PS-1)
standard international model, 210 to 250V, 48 to 52Hz	36-0090-002 (PS-2)
heavy-duty model (required for Mexico, Japan) 115V Nominal - range suitable for Mexico and Japan, 47 to 63Hz	01-0019-001 (PS-3)
heavy-duty model 220V, 47 to 63Hz	01-0019-002 (PS-4)
Cursor	
One Button	C01-0090-021
Four Button	C01-0091-023
Thirteen Button	01-0118-003
Data Interface Cables	
Parallel and RS232	05-0079-001 (10 ft.)
IEEE	78-6001-001 (2 meters)



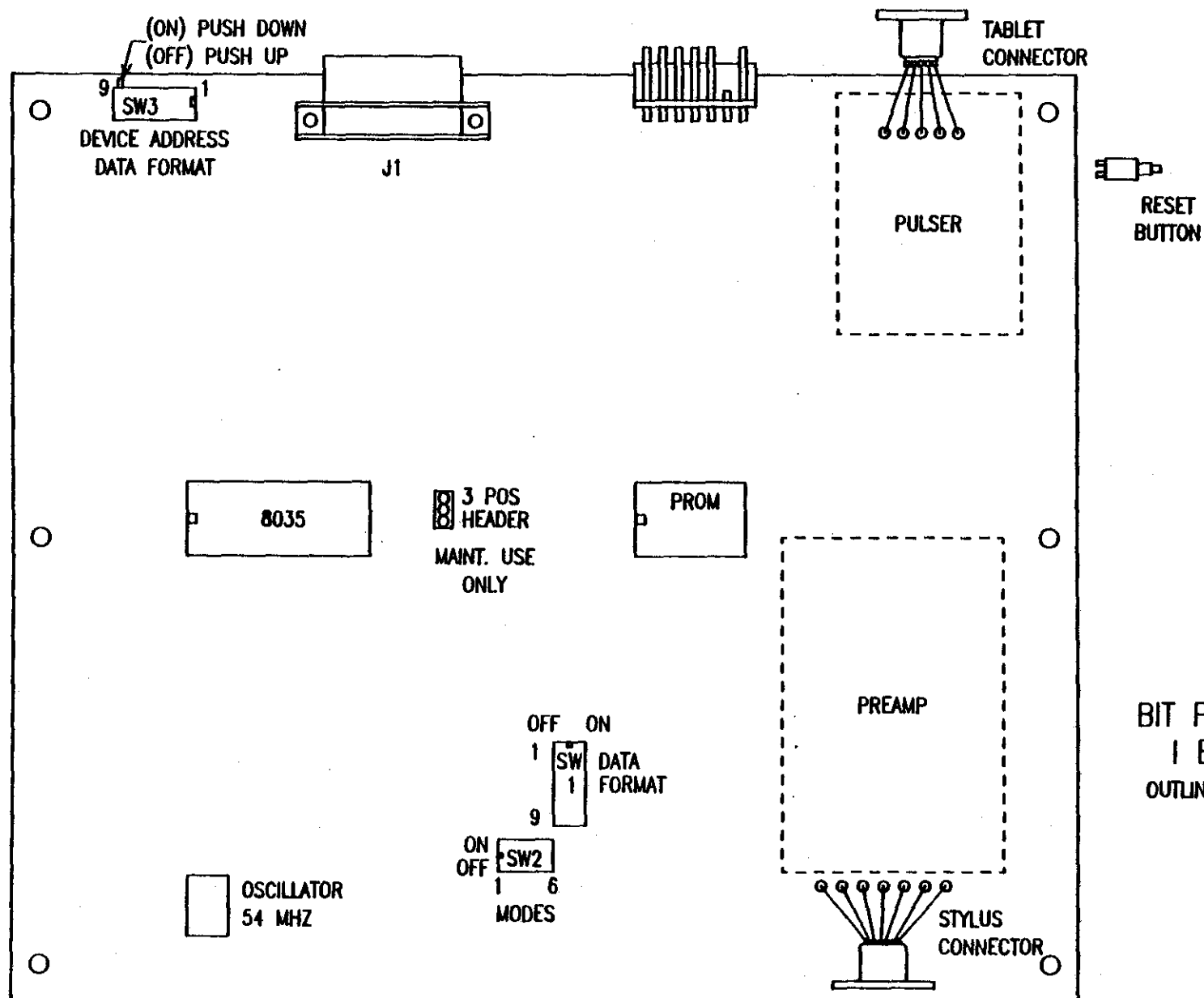
NEXT BYTE AND BYTE ACCEPTED ARE NEVER TRUE. COINCIDENTLY FOR PROPER CONTROL.

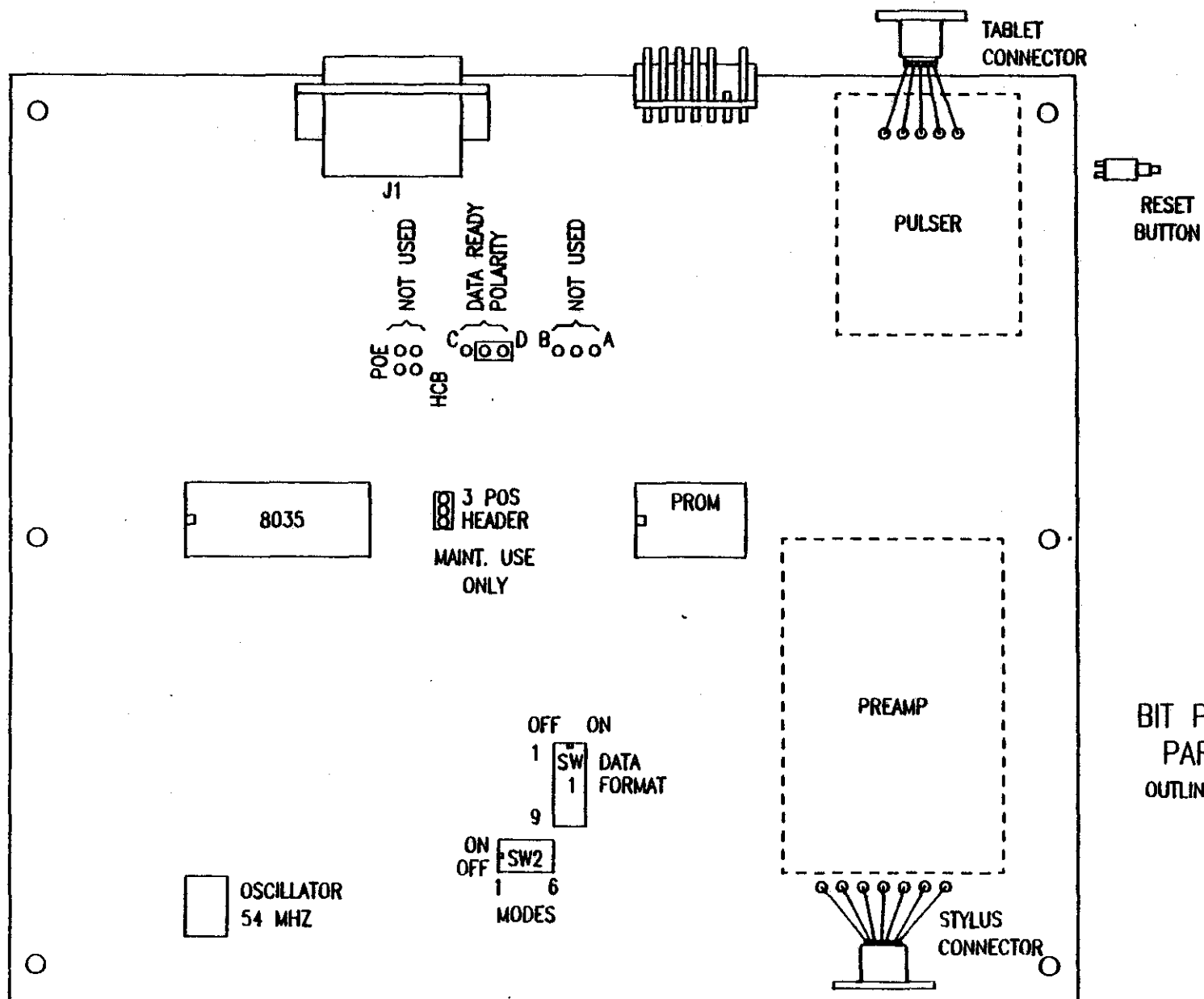


TIME INTERVAL MAY BE
EXTENDED BY BYTE ACCEPTED
BEING FALSE

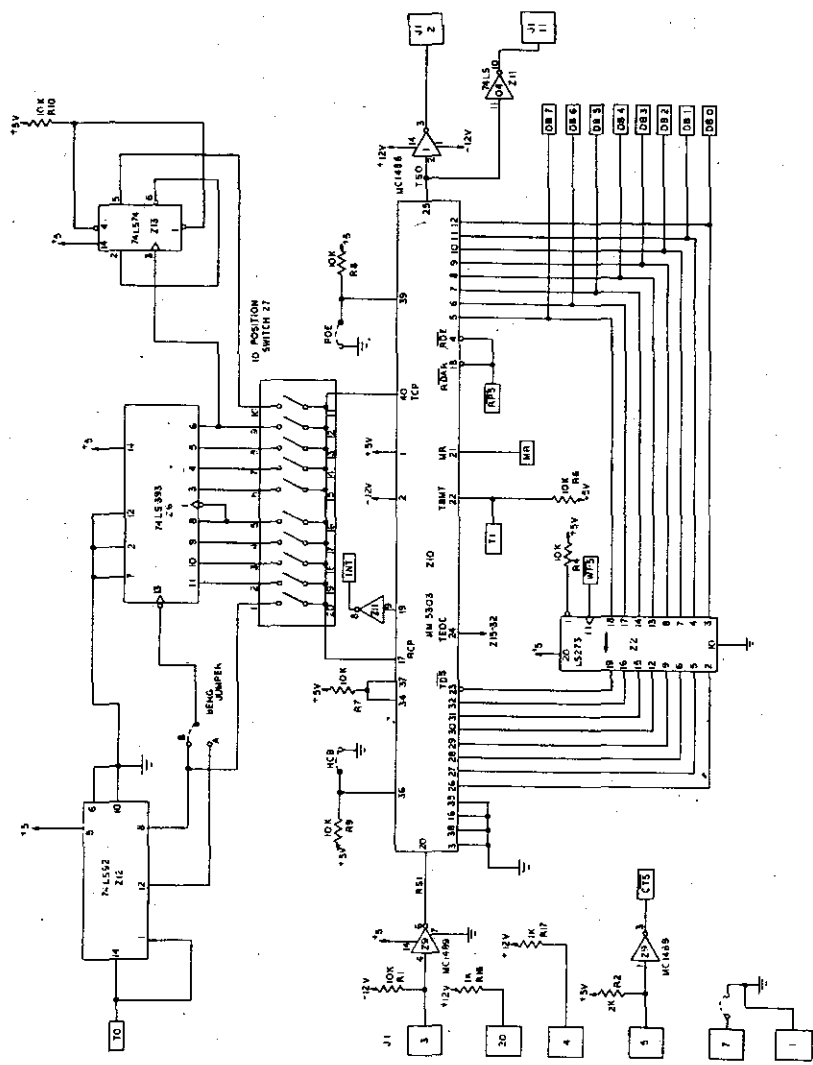


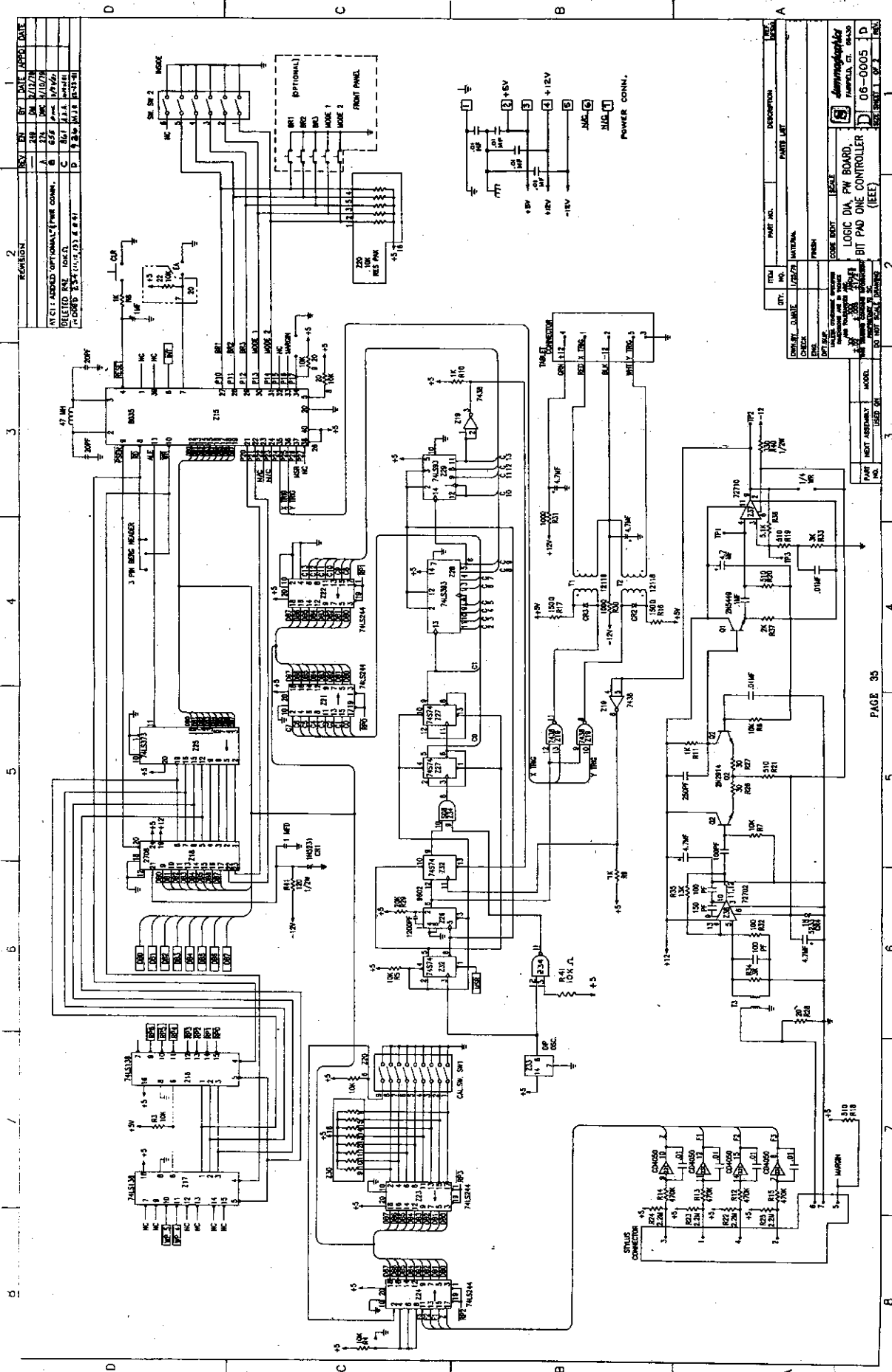
BIT PAD ONE
RS 232
OUTLINE DRAWING



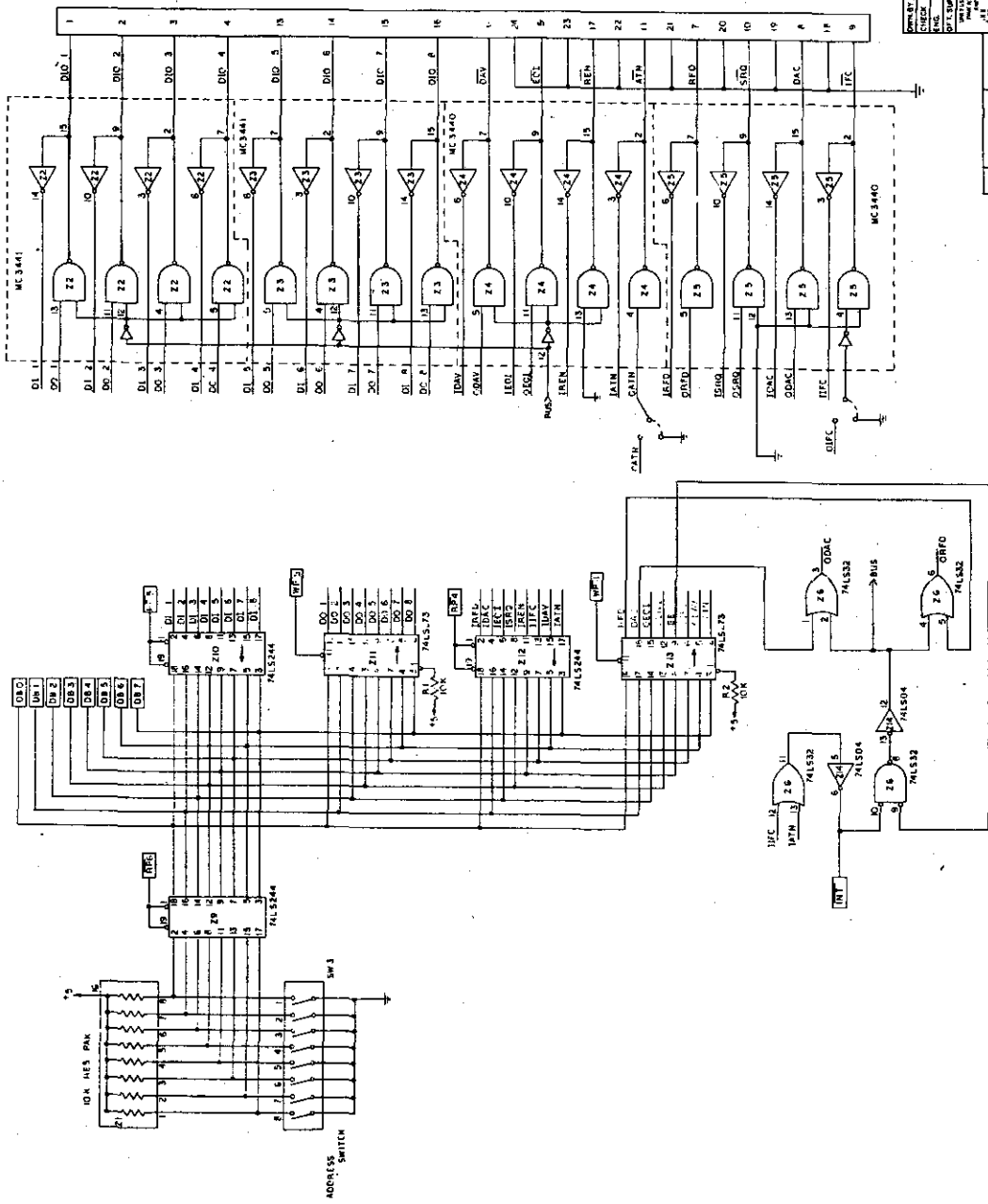


BIT PAD ONE
PARALLEL
OUTLINE DRAWING

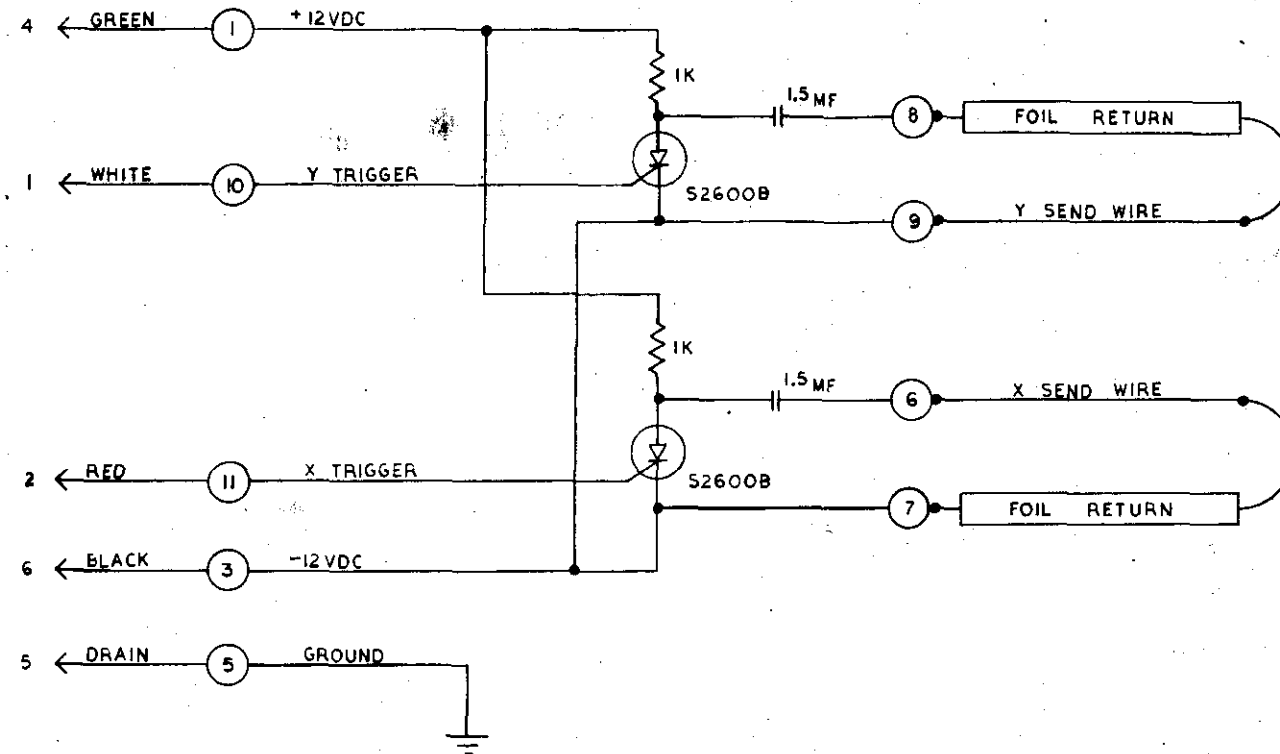
[illegible]

[illegible]

CODE	ENTRY	SCALE
LOGIC DIA. PW BOARD, BIT PAD ONE CONTROLLER (IEEE)		
		
Summagraphics FAIRFIELD, CT. 06430		
		06-0005 D SPEC. PRINT. 1 OF 2

[illegible]

P1



NOTES:

1. FOR ASSY. DWG. SEE B04-0019-002

002	04-0019-002	8/P-1 (SUMMAGraphics)
PART NO.	NEXT ASSEMBLY	MODEL
	USED ON	

QTY	ITEM NO.	PART NO.	DESCRIPTION	REF. MARK
PARTS LIST				
OWN. BY <i>D. M. M.</i>		11-1-79		
CHECK <i>J. N. M.</i>		11-5-79		
ENG.				
DFT. SUR <i>J. N. M.</i>		11-5-79		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND TOLERANCES ARE: XX ±.02 XXX ±.005 ANGLES ±1/2°		MATERIAL:		
THIS DRAWING CONTAINS INFORMATION PROPRIETARY TO SC		FINISH:		
DO NOT SCALE DRAWING.		CODE IDENT		
		SCALE		
		SCHEMATIC TABLET PULSER		
		 Summagraphics FAIRFIELD, CT 06430		
		B 06-0019-002 - SIZE SHEET 2 OF 2		

REV	EN	BY	DATE	APPD	DATE
-	4/5	DWC	11-6-79		